

Amendment A
Application No. 10/605,473
Attorney Docket No.: 718395.52

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended): A valve for controlling fluid flow comprising:
a valve housing having at least one inlet port and a plurality of outlet ports;
including a first outlet port and a second outlet port; and
a valve rotor, rotatably disposed within the valve housing, wherein the valve rotor ~~includes a plurality of internal fluid passages within the valve rotor to selectively connect, in fluid relationship, the at least one inlet port with at least one outlet port of the plurality of outlet ports~~ includes a first valve portion with a first internal fluid passage arrangement and a second valve portion with a second internal fluid passage arrangement, the first internal fluid passage arrangement and the second internal fluid passage arrangement being in fluid communication with each other, the first internal fluid passage arrangement providing fluid communication between at least one said inlet port and said first outlet port and between at least one said inlet port and the second internal fluid passage arrangement, the second internal fluid passage arrangement at least partially providing fluid communication between at least one said inlet port and the second outlet port.
2. (Previously Presented): The valve for controlling fluid flow according to claim 1, wherein the valve rotor has a rotational axis extending therethrough and the at least one inlet port and the plurality of outlet ports of the valve housing are aligned along two axially spaced planes that are substantially perpendicular to the rotational axis.
3. (Currently Amended): The valve for controlling fluid flow according to claim 2, wherein the plurality of outlet ports ~~includes an~~ includes a third outlet port formed in the valve

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housing that is aligned so as to be parallel with the rotational axis of the valve rotor.

4. (Previously Presented): The valve for controlling fluid flow according to claim 1, further comprising a biasing mechanism to position the valve rotor in a preselected rotational orientation relative to the valve housing.

5. (Previously Presented): The valve for controlling fluid flow according to claim 4, wherein the biasing mechanism includes a spring.

6. (Previously Presented): The valve for controlling fluid flow according to claim 1, further comprising a drive mechanism that is operatively connected to the valve rotor for moving the valve rotor to selected rotational orientations within the valve housing.

7. (Previously Presented): The valve for controlling fluid flow according to claim 6, wherein the drive mechanism includes a motor.

8. (Previously Presented): The valve for controlling fluid flow according to claim 7, wherein the motor includes a stepper motor.

9. (Previously Presented): The valve for controlling fluid flow according to claim 7, wherein the drive mechanism includes a motor operatively connected to a reduction gear combination.

10. (Currently Amended): The valve for controlling fluid flow according to claim 1, ~~wherein the plurality of internal fluid passages~~ includes at least one internal fluid passage that extends down along a rotational axis of the valve rotor and connects the first internal fluid passage arrangement and the second internal fluid passage arrangement in fluid communication and includes a first opening in a top portion of the valve rotor and a second opening in a bottom

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portion of the valve rotor.

11. (Currently Amended): The valve for controlling fluid flow according to claim 1, wherein the valve rotor includes a rotational axis and ~~the plurality of internal fluid passages includes~~ at least one first internal fluid passage that extends down along the rotational axis of the valve rotor connecting the first internal fluid passage arrangement and the second internal fluid passage arrangement in flow communication and the second internal fluid passage arrangement connects the first internal fluid passage arrangement in fluid communication and wherein the ~~plurality of internal fluid passages includes at least one second internal fluid passage that extends from the at least one first fluid passage to at least one opening in an outer surface of the valve rotor.~~

12. (Currently Amended): The valve for controlling fluid flow according to claim 1, ~~wherein the plurality of internal fluid passages includes~~ including a first fluid passage that extends down along a rotational axis of the valve rotor connecting the first internal fluid passage arrangement and the second internal fluid passage arrangement in flow communication and the ~~first internal fluid passage arrangement and the plurality of internal fluid passages includes a~~ second fluid passage that extends from the first fluid passage to a first opening in an outer surface of the valve rotor and ~~the plurality of internal fluid passages includes a third fluid passage that extends from the first fluid passage to a second opening in the outer surface of the valve rotor and the plurality of internal fluid passages includes a fourth fluid passage that extends from the first fluid passage to a third opening in the outer surface of the valve rotor.~~

13. (Previously Presented): The valve for controlling fluid flow according to claim 12, wherein the second fluid passage is axially aligned with the third fluid passage and the fourth fluid passage is substantially perpendicular to the second fluid passage and the third fluid passage to form a t-shaped fluid passage.

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14. (Currently Amended): The valve for controlling fluid flow according to claim 1, ~~wherein the plurality of internal fluid passages includes a plurality of axially extending internal~~ fluid passages located within the valve rotor.

15. (Previously Presented): The valve for controlling fluid flow according to claim 14, wherein the plurality of axially extending internal fluid passages includes a first fluid passage, having a first diameter, that extends down along a rotational axis of the valve rotor and having a first opening in a top portion of the valve rotor and a second opening in a bottom portion of the valve rotor, wherein the plurality of axially extending internal fluid passages includes at least one second fluid passage, having a second diameter, wherein the at least one second fluid passage is parallel to the first fluid passage and the second diameter is less than the first diameter.

16. (Previously Presented): The valve for controlling fluid flow according to claim 15, wherein the at least one second fluid passage only extends for a portion of a length of the valve rotor to a third opening in the bottom portion of the valve rotor.

17. (Currently Amended): The valve for controlling fluid flow according to claim 16, wherein the at least one second internal fluid passage includes at least one groove formed in the bottom portion of the valve rotor in fluid ~~relationship~~ communication with the third opening in the bottom portion of the valve rotor.

18. (Currently Amended): The valve for controlling fluid flow according to claim 1, ~~wherein the plurality of internal fluid passages includes including~~ a first fluid passage that extends down along a rotational axis of the valve rotor and the ~~plurality of internal fluid passages~~ second internal fluid passage arrangement includes a second pie-shaped fluid passage that extends from the first fluid passage to an opening in an outer surface of the valve rotor.

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19. (Previously Presented): The valve for controlling fluid flow according to claim 1, wherein the valve rotor and the valve housing are spaced apart to form a gap between the valve rotor and the valve housing to permit fluid flow.

20. (Previously Presented): The valve for controlling fluid flow according to claim 19, further including at least one flexible seal between the valve rotor and the at least one inlet port and including at least one flexible seal between the valve rotor and at least one outlet port of the plurality of outlet ports to prevent fluid from flowing into the gap.

21. (Previously Presented): The valve for controlling fluid flow according to claim 20, wherein the flexible seal includes at least one flange portion adjacent to the valve rotor and a collar portion adjacent to and extending into the at least one inlet port or the at least one outlet port of the plurality of outlet ports.

22. (Currently Amended): A valve for controlling fluid flow comprising:
a valve housing having at least one inlet port and a plurality of outlet ports
including a first outlet port and a second outlet port;
a valve rotor, rotatably disposed within the valve housing, wherein the valve rotor ~~can provide a plurality of internal fluid passages within the valve rotor to selectively connect, in fluid relationship, the at least one inlet port with at least one outlet port of the plurality of outlet ports;~~ includes a first valve portion with a first internal fluid passage arrangement and a second valve portion with a second internal fluid passage arrangement, the first internal fluid passage arrangement and the second internal fluid passage arrangement being in fluid communication with each other, the first internal fluid passage arrangement providing fluid communication between at least one said inlet port and said first outlet port and between at least one said inlet port and the second internal fluid passage arrangement, the second internal fluid passage arrangement at least partially providing fluid communication between at least one said inlet port and the second outlet port;

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a biasing mechanism to position the valve rotor in a preselected rotational orientation relative to the valve housing; and

a drive mechanism operatively attached to the valve rotor, wherein the drive mechanism includes a motor.

23. (Currently Amended) The valve for controlling fluid flow according to claim 22, ~~wherein the plurality of internal fluid passages includes a first fluid passage that extends down along a rotational axis of the valve rotor, rotor and the plurality of internal fluid passages includes a second fluid passage that extends from the first fluid passage to a first opening in an outer surface of the valve rotor, rotor and the plurality of internal fluid passages includes a third fluid passage that extends from the first fluid passage to a second opening in the outer surface of the valve rotor and~~ and the plurality of internal fluid passages includes a fourth fluid passage that extends from the first fluid passage to a third opening in the outer surface of the valve rotor.

24. (Previously Presented) The valve for controlling fluid flow according to claim 22, wherein the valve rotor and the valve housing are spaced apart to form a gap and further includes at least one flexible seal between the valve rotor and the at least one inlet port and at least one flexible seal between the valve rotor and at least one outlet port of the plurality of outlet ports to prevent fluid from flowing into the gap.

25. (Currently Amended) A valve for controlling fluid flow comprising:
a valve housing having a bottom portion, at least one inlet port and a plurality of outlet ports, includes a first outlet port and a second outlet port, wherein the at least one least one said inlet port and at least one least one said outlet port of the plurality of outlet ports are substantially located in a first plane and at least one least one said outlet port of the plurality of outlet ports is substantially located in a second plane and at least one least one said outlet port of the plurality of outlet ports is located on the bottom portion of the valve housing, wherein the first plane and the second plane are substantially perpendicular to a rotational axis for the valve

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rotor and the first plane and the second plane are axially spaced from each other;

a valve rotor, rotatably disposed within the valve housing, wherein the valve rotor ~~includes a plurality of internal fluid passages within the valve rotor to selectively connect, in fluid relationship, the at least one inlet port with at least one outlet port of the plurality of outlet ports; and includes a first valve portion with a first internal fluid passage arrangement and a second valve portion with a second internal fluid passage arrangement, the first internal fluid passage arrangement and the second internal fluid passage arrangement being in fluid communication with each other, the first internal fluid passage arrangement providing fluid communication between at least one said inlet port and at least one said first outlet port and between at least one said inlet port and the second internal fluid passage arrangement, the second internal fluid passage arrangement at least partially providing fluid communication between at least one said inlet port and the second outlet port; and~~

a biasing mechanism disposed about a shaft of the valve rotor to position the valve rotor in a preselected rotational orientation relative to the valve housing.

26. (Currently Amended) The valve for controlling fluid flow according to claim 25, ~~wherein the plurality of internal fluid passages includes a first fluid passage that extends down along a rotational axis of the valve rotor, and the plurality of internal fluid passages includes a second fluid passage from the first fluid passage to a first surface opening in the valve rotor in the first plane, and the plurality of internal fluid passages includes a third fluid passage from the first fluid passage to a second surface opening in the valve rotor in the first plane, and the plurality of internal fluid passages includes a fourth fluid passage from the first fluid passage to a third surface opening in the valve rotor in the first plane, and the plurality of internal fluid passages includes a fifth fluid passage from the first fluid passage to a fourth surface opening in the valve rotor in the second plane and the plurality of internal fluid passages includes at least one sixth fluid passage from the fifth fluid passage to the at least one fifth fluid opening in the bottom portion of the valve rotor.~~

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27. (Previously Presented) The valve for controlling fluid flow according to claim 26, wherein the at least one sixth fluid passage includes dual fluid passages that extend from the fifth fluid passage to dual grooved openings in the bottom portion of the valve rotor.

28. (Previously Presented) The valve for controlling fluid flow according to claim 25, wherein the valve rotor and the valve housing are spaced apart to form a gap and further includes at least one flexible seal between the valve rotor and the at least one inlet port and at least one flexible seal between the valve rotor and at least one outlet port of the plurality of outlet ports to prevent fluid from flowing into the gap.

29. (Currently Amended) A valve control system for controlling fluid flow comprising:

a valve housing having at least one inlet port and a plurality of outlet ports including at least one first outlet port and at least one second outlet port; a valve rotor, rotatably disposed within the valve housing, wherein the valve rotor ~~includes a plurality of internal fluid passages within the valve rotor to selectively connect, in fluid relationship, the at least one inlet port with at least one outlet port of the plurality of outlet ports~~; includes a first valve portion with a first internal fluid passage arrangement and a second valve portion with a second internal flow passage arrangement, the first internal fluid passage arrangement and the second internal fluid passage arrangement being in fluid communication with each other, the first internal fluid passage arrangement providing fluid communication between at least one said inlet port and said first outlet port and between at least one said inlet port and the second internal fluid passage arrangement, the second internal fluid passage arrangement at least partially providing fluid communication between at least one said inlet port and the second outlet port;

a drive mechanism operatively connected to the valve rotor; and

a processor that is operatively connected to the drive mechanism to selectively rotate the valve rotor.

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30. (Previously Presented) The valve control system for controlling fluid flow according to claim 29, wherein the processor is operatively connected to a plurality of sensors.

31. (Previously Presented) The valve control system for controlling fluid flow according to claim 30, wherein the plurality of sensors includes at least one temperature sensor.

32. (Currently Amended) The valve control system for controlling fluid flow according to claim 29, further comprising a fluid pump that connected in fluid ~~relationship~~ communication to the at least one inlet port.

33. (Previously Presented) The valve control system for controlling fluid flow according to claim 32, wherein the fluid pump is powered by electricity.

34. (Currently Amended) The valve control system for controlling fluid flow according to claim 29, further comprising a radiator that is connected in fluid ~~relationship~~ communication to at least one outlet port of the plurality of outlet ports.

35. (Previously Presented) The valve control system for controlling fluid flow according to claim 29, further comprising a biasing mechanism to position the valve rotor in a preselected rotational orientation relative to the valve housing.

36. (Currently Amended) A valve control system for controlling fluid flow comprising:

a valve housing having at least one inlet port and a plurality of outlet ports including at least one first outlet port and at least one second outlet port, wherein the at least one least one said inlet port and at least one of the first outlet port of the plurality of outlet ports ~~substantially is substantially~~ located in a first plane and ~~at least one other the second outlet port of the plurality of outlet ports~~ is substantially located in a second plane, wherein the first plane

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and the second plane are substantially perpendicular to a rotational axis for the valve rotor and the first plane and the second plane are axially spaced from each other;

a valve rotor, rotatably disposed within the valve housing, wherein the valve rotor ~~includes a plurality of internal fluid passages within the valve rotor to selectively connect, in fluid relationship, the at least one inlet port with at least one outlet port of the plurality of outlet ports;~~ includes a first valve portion with a first internal fluid passage arrangement and a second valve portion with a second internal fluid passage arrangement, the first internal fluid passage arrangement and the second internal fluid passage arrangement being in fluid communication with each other, the first internal fluid passage arrangement providing fluid communication between at least one said inlet port and said first outlet port and between at least one said inlet port and the second internal fluid passage arrangement, the second internal fluid passage arrangement at least partially providing fluid communication between at least one said inlet port and the second outlet port;

a biasing mechanism disposed about a shaft of the valve rotor to position the valve rotor in a preselected rotational orientation relative to the valve housing;

a drive mechanism operatively connected to the valve rotor;

a processor that is operatively connected to the drive mechanism to selectively rotate the valve rotor;

at least one sensor that is operatively connected to the processor; and

a fluid pump that is connected, in fluid relationship, to the at least one inlet port.

37. (Previously Presented) The valve control system for controlling fluid flow according to claim 36, further comprising a radiator that is connected in fluid relationship to at least one outlet port of the plurality of outlet ports.

38. (Currently Amended) A valve control system for controlling fluid flow comprising:

a valve housing having a bottom portion, at least one inlet port and a plurality of

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outlet ports includes at least one first outlet port, at least one second outlet port, and at least one third outlet port, wherein the ~~at least one~~ least one said inlet port and ~~at least one the first outlet port of the plurality of outlet ports~~ are substantially located in a first plane and ~~at least one the second outlet port of the plurality of outlet ports~~ is substantially located in a second plane and ~~at least one the third outlet port of the plurality of outlet ports~~ is located on the bottom portion of the valve housing, wherein the first plane and the second plane are substantially perpendicular to a rotational axis for the valve rotor and the first plane and the second plane are axially spaced from each other;

a valve rotor, rotatably disposed within the valve housing, wherein the valve rotor ~~includes a plurality of internal fluid passages within the valve rotor to selectively connect, in fluid relationship, the at least one inlet port with at least one outlet port of the plurality of outlet ports;~~ includes a first valve portion with a first internal fluid passage arrangement and a second valve portion with a second internal fluid passage arrangement, the first internal fluid passage arrangement and the second internal fluid passage arrangement being in fluid communication with each other, the first internal fluid passage arrangement providing fluid communication between at least one said inlet port and said first outlet port and between at least one said inlet port and the second internal fluid passage arrangement, the second internal fluid passage arrangement at least partially providing fluid communication between at least one said inlet port and the second outlet port;

a biasing mechanism disposed about a shaft of the valve rotor to position the valve rotor in a preselected rotational orientation relative to the valve housing;

a drive mechanism operatively connected to the valve rotor,

a processor that is operatively connected to the drive mechanism to selectively rotate the valve rotor;

at least one sensor that is operatively connected to the processor; and

a fluid pump that is connected, in fluid relationship, to the at least one inlet port.

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39. (Currently Amended) The valve control system for controlling fluid flow according to claim 38, ~~includes wherein the plurality of internal fluid passages includes~~ a first fluid passage that extends down along a rotational axis of the valve rotor connecting the first internal fluid passage arrangement and the second internal fluid passage arrangement in fluid communication and the first internal fluid passage arrangement and the plurality of internal fluid passages includes a second fluid passage from the first fluid passage to a first surface opening in the valve rotor in the first plane and the ~~plurality of internal fluid passages~~ first internal fluid passage arrangement includes a third fluid passage from the first fluid passage to a second surface opening in the valve rotor in the first plane and the ~~plurality of internal fluid passages~~ first internal fluid passage arrangement includes a fourth fluid passage from the first fluid passage to a third surface opening in the valve rotor in the first plane and the ~~plurality of internal fluid passages~~ second internal fluid passage arrangement includes a fifth fluid passage from the first fluid passage to a fourth surface opening in the valve rotor in the second plane and the ~~plurality of internal fluid passages~~ second internal fluid passage arrangement includes at least one sixth fluid passage from the fifth fluid passage ~~to the at least to~~ at least one fifth fluid surface opening in the bottom portion of the valve rotor.

40. (Currently Amended) A method for controlling fluid flow comprising:
 receiving fluid in at least one inlet port for a valve housing; and
 selectively directing the received fluid from the at least one inlet port into a valve rotor with a rotation axis and that is rotatably disposed within the valve housing and then out through at least one the said first outlet port and the said second outlet port of a plurality of outlet ports, wherein the valve rotor includes a plurality of at least the first internal fluid passage arrangement and the second internal fluid passage arrangement internal fluid passages, within the valve rotor and connected in flow communication with one another to selectively connect at least one least one said inlet port with at least one outlet port said first outlet port and said second outlet port of the plurality of outlet ports for the valve housing said first fluid passage arrangement and said second fluid passage arrangement being spaced apart along the rotation

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axis and the first fluid passage arrangement selectively directing flow of fluid to said first outlet port and the said second fluid passage arrangement selectively directing flow of fluid to said second outlet port.

41. (Previously Presented) The method for controlling fluid flow according to claim 40, further comprising positioning the valve rotor in a preselected rotational orientation relative to the valve housing with a biasing mechanism.

42. (Previously Presented) The method for controlling fluid flow according to claim 40, further comprising positioning the valve rotor in a preselected rotational orientation relative to the valve housing with a spring.

43. (Previously Presented) The method for controlling fluid flow according to claim 40, further comprising moving the valve rotor to selected rotational orientations within the valve housing with a drive mechanism that is operatively connected to the valve rotor.

44. (Previously Presented) The method for controlling fluid flow according to claim 40, further comprising moving the valve rotor to selected rotational orientations within the valve housing with a motor that is operatively connected to the valve rotor.

45. (Currently Amended) The method for controlling fluid flow according to claim 40, wherein the selectively directing the received fluid from the at least one inlet port into the valve rotor ~~utilizing the plurality of internal fluid passages~~ includes utilizing at least one internal fluid passage that extends down ~~along a~~ along the rotational axis of the valve rotor ~~having a first opening in a top portion of the valve rotor and having a second opening in a bottom portion of the valve rotor~~ connecting the first fluid passage arrangement and the second fluid passage arrangement in fluid communication.

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46. (Currently Amended) The method for controlling fluid flow according to claim 40, wherein the selectively directing the received fluid from the at least one inlet port into the valve rotor utilizing ~~the plurality of internal fluid passages that includes the first and second fluid passage arrangements, flowing fluid through~~ a first fluid passage that extends down along ~~the rotational axis of the valve rotor and the plurality of internal fluid passages from the first fluid passage arrangement to the second fluid passage arrangement, at least one of the first and second fluid passage arrangements~~ includes a second fluid passage that extends ~~from the first fluid passage~~ to a first opening in an outer surface of the valve rotor ~~and the plurality of internal fluid passages includes~~, a third fluid passage that extends ~~from the first fluid passage~~ to a second opening in the outer surface of the valve rotor ~~and the plurality of internal fluid passages includes~~ a fourth fluid passage that extends ~~from the first fluid passage~~ to a third opening in the outer surface of the valve rotor.

47. (Previously Presented) The method for controlling fluid flow according to claim 40, wherein the selectively directing the received fluid from the at least one inlet port into the valve rotor and then out through at least one outlet port of the plurality of outlet ports includes permitting fluid flow through a gap between the valve rotor and the valve housing.

48. (Previously Presented) The method for controlling fluid flow according to claim 47, wherein the selectively directing the received fluid from the at least one inlet port into a valve rotor and then out through at least one outlet port of the plurality of outlet ports includes preventing fluid flow through the gap between the valve rotor and the valve housing with at least one flexible seal between the valve rotor and the at least one inlet port and at least one flexible seal between the valve rotor and at least one outlet port of the plurality of outlet ports.

49. (Currently Amended) A method for controlling fluid flow comprising:
receiving fluid in at least one inlet port for a valve housing;
selectively directing the received fluid from the at least one inlet port into the

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valve rotor with a rotation axis and that is rotatably disposed within the valve housing and then out through at least one the said first outlet port and the said second outlet port of a plurality of outlet ports, wherein the valve rotor includes a plurality of internal fluid at least one said first fluid passage arrangement and said second fluid passage arrangement within the valve rotor and connected in flow communication with one another to selectively connect the at least one least one said inlet port with at least one outlet port the said first outlet port and the said second outlet port of the plurality of outlet ports for the valve housing said first fluid passage arrangement and second fluid passage arrangement being spaced apart along the rotation axis and the first fluid passage arrangement selectively directing flow of fluid to said first outlet port and the second fluid passage arrangement selectively directing flow of fluid to said second outlet port;

positioning the valve rotor in a preselected rotational orientation relative to the valve housing with a biasing mechanism; and

moving the valve rotor to selected rotational orientations within the valve housing with a drive mechanism that is operatively connected to the valve rotor.

50. (Currently Amended) The method for controlling fluid flow according to claim 49, wherein the selectively directing the received fluid from the at least one inlet port into the valve rotor utilizing the plurality of internal fluid passages that includes said first fluid passage arrangement and said second fluid passage arrangement, flowing fluid through a first fluid passage that extends down along a along the rotational axis of the valve rotor from the first fluid passage arrangement to the second fluid passage arrangement, at least one of the first fluid passage arrangement and the second fluid passage arrangement and the plurality of internal fluid passages includes a second fluid passage that extends from the first fluid passage to a first opening in an outer surface of the valve rotor, and the plurality of internal fluid passages includes a third fluid passage that extends from the first fluid passage to a second opening in the outer surface of the valve rotor and the plurality of internal fluid passages includes fourth fluid passage that extends from the first fluid passage to a third opening in the outer surface of the valve rotor.

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51. (Currently Amended) The method for controlling fluid flow according to claim 49, wherein the selectively directing the received fluid from the ~~at least one~~ least one said inlet port into the valve rotor and then out through ~~at least one~~ least one said outlet port of the plurality of outlet ports includes preventing fluid flow through a gap between the valve rotor and the valve housing with at least one flexible seal between the valve rotor and the at least one inlet port and at least one flexible seal between the valve rotor and at least one outlet port of the plurality of outlet ports.

52. (Currently Amended) A method for controlling fluid flow comprising:
receiving fluid in at least one inlet port for a valve housing;
selectively directing the received fluid from the at least one inlet port into a valve rotor with a rotation axis and that is rotatably disposed within the valve housing and then out through at least one outlet a first said outlet and a second said outlet port of a plurality of outlet ports, wherein the valve rotor includes at a plurality of internal fluid passage at least a first fluid passage arrangement and a second fluid passage arrangement within the valve rotor and connected in flow communication with one another to selectively connect the at least one least one said inlet port with at least one outlet port two said outlet ports of the plurality of outlet ports for the valve housing, said first fluid passage arrangement and said second fluid passage arrangement being spaced apart along the rotation axis and the first fluid passage arrangement selectively directing flow of fluid to said first outlet port and the second fluid passage arrangement selectively directing flow of fluid to said second outlet port;
positioning the valve rotor in a preselected rotational orientation relative to the valve housing with a biasing mechanism; and
moving the valve rotor to selected rotational orientations within the valve housing with a drive mechanism that is operatively connected to the valve rotor, wherein the drive mechanism is controlled by a processor that is operatively attached thereto.

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53. (Previously Presented) The method for controlling fluid flow according to claim 52, further includes receiving input from a plurality of sensors into the processor, which is operatively connected to the plurality of sensors.

54. (Previously Presented) The method for controlling fluid flow according to claim 52, further includes receiving input from at least one temperature sensor into the processor, which is operatively connected to the at least one temperature sensor.

55. (Currently Amended) The method for controlling fluid flow according to claim 52, further includes providing fluid into the at least one input port from a fluid pump that is connected in fluid ~~relationship thereto~~ communication therewith.

56. (Currently Amended) The method for controlling fluid flow according to claim 52, further includes receiving fluid from the at least one of the plurality of output ports into a radiator that is connected in fluid ~~relationship thereto~~ communication therewith.

57. A method for controlling fluid flow comprising:
receiving fluid in the at least one inlet port for a valve housing;
selectively directing the received fluid from the at least one inlet port into a valve rotor with a rotation axis and that is rotatably disposed within the valve housing and then out through at least one outlet a said first outlet port and a said second outlet port of a plurality of outlet ports, wherein the valve rotor includes a plurality of internal fluid passages at least first fluid passage arrangement and second fluid passage arrangement within the valve rotor and connected in flow communication with one another to selectively connect the at least one inlet port with at least one outlet two said outlet port of the plurality of outlet ports for the valve housing said first fluid passage arrangement and second fluid passage arrangement being spaced apart along the rotation axis and the first fluid passage arrangement selectively directing flow of fluid to said first outlet port and the second fluid passage arrangement selectively directing flow

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of fluid to said second outlet port;

positioning the valve rotor in a preselected rotational orientation relative to the valve housing with a biasing mechanism;

moving the valve rotor to selected rotational orientations within the valve housing with a drive mechanism that is operatively connected to the valve rotor, wherein the drive mechanism is controlled by a processor that is operatively attached thereto;

receiving input from the at least one sensor that is operatively connected to the processor;

providing fluid into the at least one input from a fluid pump that is connected in ~~fluid-relationship thereto~~ communication therewith; and

receiving fluid from at least one outlet port of the plurality of outlet ports into a radiator that is connected in fluid ~~relationship thereto~~ communication therewith.